

IN THE CLAIMS

Please cancel claims 1-20 without prejudice or disclaimer.

Please add the following new claims 21-33.

For the Examiner's convenience, all pending claims are listed below.

21. (NEW) An isolated polypeptide selected from the group consisting of:

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- a) a polypeptide comprising an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7 or SEQ ID NO:8
 - b) a polypeptide comprising an amino acid sequence at least 90% identical to an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7 or SEQ ID NO:8,
 - c) a biologically active fragment of a polypeptide having an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7 or SEQ ID NO:8, and
 - d) an immunogenic fragment of a polypeptide having an amino acid sequence of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7 or SEQ ID NO:8.

22. (NEW) An isolated polynucleotide encoding a polypeptide of claim 21.

23. (NEW) A recombinant polynucleotide comprising a promoter sequence operably linked to the polynucleotide of claim 22.

24. (NEW) A cell transformed with the recombinant polynucleotide of claim 23.

25. (NEW) A transgenic organism comprising the recombinant polynucleotide of claim 23.

26. (NEW) A method of producing a polypeptide of claim 21, the method comprising:

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- a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 21, and
 - b) recovering the polypeptide so expressed.

27. (NEW) An isolated antibody which specifically binds to the polypeptide of claim 21.

28. (NEW) An isolated polynucleotide selected from the group consisting of:

- a) a polynucleotide comprising a polynucleotide sequence of SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15 or SEQ ID NO:16,
- b) a polynucleotide comprising a polynucleotide sequence at least 90% identical to a polynucleotide sequence of SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15 or SEQ ID NO:16,
- c) a polynucleotide complementary to a polynucleotide of a),
- d) a polynucleotide complementary to a polynucleotide of b) and
- e) an RNA equivalent of a)-d).

29. (NEW) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 28, the method comprising:

- a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions whereby a hybridization complex is formed between said probe and said target polynucleotide, and
- b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.

30. (NEW) A method of claim 29, wherein the probe comprises at least 60 contiguous nucleotides.

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Conclude
31. (NEW) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 28, the method comprising:

- a) amplifying said target polynucleotide using polymerase chain reaction amplification, and
- b) detecting the presence or absence of said amplified target polynucleotide and optionally, if present, the amount thereof.

32. (NEW) A composition comprising the polypeptide of claim 21 and a pharmaceutically acceptable excipient.

33. (NEW) A method for treating a disease or condition associated with decreased expression of functional PTAM, comprising administering to a patient in need of such treatment the composition of claim 32.